

CLAIMS:

1. A method of performing error correction of stream data on a data medium using an information file, the method comprising the steps of:

- determining (100) whether an error exists in the stream data on the basis of the information file and the stream data;
- 5 – determining (200) a file offset of the error in the stream data on the basis of the information file and the stream data;
- determining (300) a size of erroneous data in the stream data on the basis of the information file and the stream data; and
- inserting (400) correction data in the stream data.

10

2. A method according to claim 1, characterized in that the step of determining whether an error exists in the stream data comprises the steps of:

- determining (101) a first size of the stream data on the basis of the stream data;
- determining (102) a second size from the information file; and
- 15 – determining (103) the error, when the first and second sizes are not equal.

3. A method according to claim 1, characterized in that the step of determining the file offset of the error in the stream data comprises the steps of

- determining (201) a clock reference or a characteristic point in the information file;
- 20 and
- looking (202) up the file offset in the information file on the basis of the determined clock reference or the determined characteristic point.

4. A method according to claim 1, characterized in that the step of determining the size of erroneous data in the stream data comprises the steps of

- 25 – determining (301) a pair of clock references in the information file;
- looking up (302) a pair of file offsets in the information file on the basis of the determined pair of clock references; and

- determining (303) the size of erroneous data on the basis of the combination of the pair of file offsets looked-up and the determined pair of clock references;

5. A method according to claim 1, characterized in that the step of inserting
5 correction data in the stream data comprises the step of:
- inserting (401) data content of a predetermined type having the determined size at the determined file offset; or
 - inserting (402) a flag at the determined file offset; or
 - inserting (403) dummy data at the determined file offset.
- 10
6. A method according to any one of claims 1 through 5, characterized in that the data content of a predetermined type comprises part of the stream data representing a muted audio signal, data representing a frozen picture or data representing a black screen.
- 15 7. A method according to any of claims 1 through 6, characterized in that the method is executed during recording of stream data.
8. A method according to any of claims 1 through 6, characterized in that the method is executed during or before playback of stream data.
- 20
9. A computer system for performing the method according to any one of claims 1 through 8.
10. A computer program product comprising program code means stored on a
25 computer readable medium for performing the method of any one of claims 1 through 8 when the computer program is run on a computer.
11. A device (600) for performing error correction of stream data on a data medium using an information file comprising:
- 30
- means for determining (602) whether an error exists in the stream data on the basis of the information file and the stream data;
 - means for determining (602) a file offset of the error in the stream data on the basis of the information file and the stream data;

- means for determining (602) a size of erroneous data in the stream data on the basis of the information file and the stream data; and
- means for inserting (602) correction data in the stream data.

5 12. A device (600) according to claim 11, characterized in that the means for determining (602) whether an error exists in the stream data comprises:

- means (602) for determining a first size of the stream data on the basis of the stream data;
- means (602) for determining a second size from the information file; and
- 10 – means (602) for determining the error, when the first and second sizes are not equal.

13. A device (600) according to claim 11, characterized in that the means (602) for determining the file offset of the error in the stream data comprises:

- means (602) for determining a clock reference or a characteristic point in the
- 15 information file; and
- means (602) for looking up the file offset in the information file on the basis of the determined clock reference or the determined characteristic point.

14. A device (600) according to claim 11, characterized in that the means (602) for determining the size of erroneous data in the stream data comprises:

- means (602) for determining a pair of clock references in the information file;
- means (602) for looking up a pair of file offsets in the information file on the basis of the determined pair of clock references; and
- 25 – means (602) for determining the size of erroneous data on the basis of the combination of the pair of file offsets looked-up and the determined pair of clock references;

15. A device (600) according to claim 11, characterized in that the means (602) for inserting correction data in the stream data comprises:

- 30 – means (602) for inserting data content of a predetermined type having the determined size at the determined file offset; or
- means (602) for inserting a flag at the determined file offset; or
- means (602) for inserting dummy data at the determined file offset.